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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/598,372	06/21/2000	Laurent Ouvry	034299-260	7291
7590	01/26/2004		EXAMINER	
ROBERT E. KREBS THELEN REID & PRIEST P. O. BOX 640640 SAN JOSE, CA 95164-0640			FAN, CHIEH M	
			ART UNIT	PAPER NUMBER
			2634	
			DATE MAILED: 01/26/2004	11

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	09/598,372	OUVRY ET AL.
<b>Examiner</b>	Art Unit	
Chieh M Fan	2634	

-- *The MAILING DATE of this communication appears on the cover sheet with the correspondence address* --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

1)  Responsive to communication(s) filed on 04 November 2003.

2a)  This action is **FINAL**.                                    2b)  This action is non-final.

3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## **Disposition of Claims**

4)  Claim(s) 1-3 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5)  Claim(s) \_\_\_\_\_ is/are allowed.

6)  Claim(s) 1-3 is/are rejected.

7)  Claim(s) \_\_\_\_\_ is/are objected to.

8)  Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

9)  The specification is objected to by the Examiner.

10)  The drawing(s) filed on 04 November 2003 is/are: a)  accepted or b)  objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a)  All b)  Some \* c)  None of:  
1.  Certified copies of the priority documents have been received.  
2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.  
13)  Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.  
a)  The translation of the foreign language provisional application has been received.  
14)  Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78

**Attachment(s)**

1)  Notice of References Cited (PTO-892)  
2)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3)  Information Disclosure Statement(s) (PTO-1449) Paper No(s) . . . . .

4)  Interview Summary (PTO-413) Paper No(s). \_\_\_\_ .  
5)  Notice of Informal Patent Application (PTO-152)  
6)  Other:

## **DETAILED ACTION**

### ***Drawings***

1. The proposed drawings corrections have been received on 11/4/03. The proposed corrections with respect to Figs. 1-6 have been approved. However, the proposed drawing correction on Figs. 7 and 8 have been disapproved because the reference numerals 121, 122, and 123 are missing in each of Figs 7 and 8.

### ***Specification***

2. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

In particular, the applicants are reminded that the word "means" should be avoided in the abstract. The amended abstract received 11/4/03 contains several occurrences of the word "means".

### ***Claim Objections***

3. Claims 1-3 are objected to because of the following informalities:

Regarding claim 1, "(ESI<sub>i</sub>)" in line 4 should be – (ESI<sub>i</sub>) --, and " stages (ESI<sub>i</sub>)" in the last line should be – stage (ESI<sub>i</sub>) --.

Regarding claim 3, "(ESI<sub>i</sub>)" in line 4 should be – (ESI<sub>i</sub>) --.

Appropriate correction is required.

### ***Claim Rejections - 35 USC § 112***

4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

5. Claims 1-3 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Claim 1 recites means (see lines 13-14) for producing synchronization signals able to control the interference suppression means and means (see lines 15-16) for producing synchronization signals able to control the decision means of the final stage (ED) in lines 15-18. It appears that the means for producing synchronization signals able to control the interference suppression means are referred to blocks 131, 132 and 133 in Fig. 7. The means for producing synchronization signals able to control the decision means of the final stage are referred to blocks 161, 162 and 163 in Fig. 7. Therefore, these limitations are directed to the reference numerals of the embodiment in Fig. 7. However, on the other hand, the rest limitations are referred to the embodiment shown in Fig. 8. The specification of the present application never teaches the embodiments in Figs 7 and 8 may be used together. Further, as shown in Fig. 7, the interference suppression means (blocks 121, 122, 123) never receive control signals from "the means (blocks 131, 132, 133) for producing synchronization signal". Therefore, the claimed limitation "means for producing synchronization signals able to control the interference suppression means" does not have support in the specification.

6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

7. Claims 1-3 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 recites the limitation “the means for producing synchronization signals are constituted by K means solely placed in the K channels of the final stage (ED)” in lines 17-18. However, the limitation “the means for producing synchronization signals” has been recited twice before (see lines 15-16 and lines 17-18). Therefore, it is not clear the K means are constituted in “the means for producing synchronization signal able to control the interference suppression means” (see lines 15-16) or “the means for producing synchronization signals able to control the decision means of the final stage (ED)” (see lines 17-18).

### ***Response to Arguments***

8. Applicant's arguments filed 11/4/03 have been fully considered but they are not persuasive.

With respect to the rejections under 35 USC 112, first paragraph, the applicants argue that the rejections have been overcome by taking away the reference notations.

Examiner's response --- The applicants only removed the reference notations, but never amended the claim to change the scope of the claim. The claim is therefore interpreted the same as the previous version. As explained above, the claims are still rejected under 35 U.S.C. 112, first paragraph. If the applicants disagree, the applicants are invited to identify each of the claimed means in Fig. 8.

With respect to the rejections under 35 USC 112, second paragraph, the applicants also argue that the amendment obviate the rejection.

Examiner's response --- As explained above in the rationale applied to reject the claims under 35 USC 112, second paragraph, claim 1 is still vague and indefinite.

***Conclusion***

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chieh M Fan whose telephone number is (703) 305-0198. The examiner can normally be reached on Monday-Friday 8:00AM-5:30PM, Alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on (703) 305-4714. The fax phone numbers

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for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4750.



Chieh M Fan  
Primary Examiner  
Art Unit 2634

cmf  
January 15, 2004